

## pTwo Remote MBus or Pulse Meter Reading

The pTwo is a first use or retrofittable remote meter reading device and comes with a number of options.

### Requirement Spec

The pTwo has been designed to solve the issues of meter reading data where there is no existing cabling or metering infrastructure. We have been approached on numerous occasions where the reading of the meters has not been fully considered and the option to run structured cabling is either too expensive or physically impossible. The pTwo is the answer.

## Installation

### Simple Battery Installation

The unit can be installed onto MBus or pulse output meters (MBus cards can often be retrofitted to meters). Simply connect the MBus terminals or pulse terminals, fix the pTwo to a surface, plug the battery in and walk away. The unit will automatically connect to the meter and upload the MBus readings to our site\*. On first connect we can configure the unit to 1 reading per day (10 years) or 1 reading every 15 mins (10 days).

### Simple Mains Installation

If you are fortunate enough to have a handy mains supply, then we have a mains powered option. This requires connection to a 3 amp fused spur supply, other than that it's the same process as the battery installation. Using mains power, it will continue as long as there is power to the supply.



### Meter data

In its simplest form, a kWh reading can be made once per day which can be used to calculate a bill. We read the full Mbus data so have all the useful diagnostic data as well as the standard kWh reads. We are able to track usage and efficiency.

Date/Time	Meter Number	Channel	Energy (kWh)	Flow Temp (C)	Return Temp (C)	Delta T (C)	Volume (m3)
02/09/2019 14:40	80017821	0	37030	61.44	36.69	24.75	1249.6
02/09/2019 14:24	80017821	0	37030	61.88	34.45	27.43	1249.5
02/09/2019 14:08	80017821	0	37030	61.9	34.58	27.32	1249.5
02/09/2019 13:46	80017821	0	37030	62.2	39.93	22.27	1249.4
02/09/2019 13:30	80017821	0	37030	62.75	38.74	24.01	1249.3
02/09/2019 13:14	80017821	0	37020	63.08	36.59	26.49	1249.2
02/09/2019 12:58	80017821	0	37020	63.26	33.71	29.55	1249.2
02/09/2019 12:42	80017821	0	37020	62.9	33.5	29.4	1249
02/09/2019 12:26	80017821	0	37010	62.79	36.13	26.66	1248.9
02/09/2019 12:11	80017821	0	37010	63.11	36.35	26.76	1248.8
02/09/2019 11:55	80017821	0	37010	63.47	34.56	28.91	1248.7
02/09/2019 11:39	80017821	0	37000	62.63	35.96	26.67	1248.5
02/09/2019 11:23	80017821	0	37000	62.76	35.34	27.42	1248.4
02/09/2019 11:07	80017821	0	36990	62.63	37.03	25.6	1248.3
02/09/2019 10:51	80017821	0	36990	62.38	38.3	24.08	1248.2
02/09/2019 10:35	80017821	0	36990	62.59	40.02	22.57	1248.1
02/09/2019 10:19	80017821	0	36990	63.09	35.32	27.77	1248
02/09/2019 10:03	80017821	0	36980	63.02	41.5	21.52	1247.9
02/09/2019 09:47	80017821	0	36980	62.61	44.51	18.1	1247.7
02/09/2019 09:31	80017821	0	36980	62.41	39.08	23.33	1247.6
02/09/2019 09:16	80017821	0	36970	62.35	40.46	21.89	1247.5
02/09/2019 09:00	80017821	0	36970	62.17	41.75	20.42	1247.5
02/09/2019 08:43	80017821	0	36970	62.25	39.13	23.12	1247.4
30/08/2019 07:24	80017821	0	36490	61.13	36.61	24.52	1230.6
30/08/2019 07:08	80017821	0	36490	61.53	35.46	26.07	1230.6
30/08/2019 06:52	80017821	0	36490	61.39	35.91	25.48	1230.6
30/08/2019 06:36	80017821	0	36490	61.26	38.41	22.85	1230.5
29/08/2019 20:52	80017821	0	36450	61.79	31.63	30.16	1228.9
29/08/2019 20:36	80017821	0	36450	61.98	30.07	31.91	1228.8
29/08/2019 20:20	80017821	0	36450	62.39	31.73	30.66	1228.8
29/08/2019 20:04	80017821	0	36450	62.81	31.86	30.95	1228.7
29/08/2019 19:48	80017821	0	36450	62.78	31.52	31.26	1228.6
29/08/2019 19:33	80017821	0	36440	62.83	34.85	27.98	1228.5

And equally we are able to put this data onto a dashboard and combine it with other data and sensors if required. This would allow alerts and diagnostics on sites.



## Features

The pTwo can read the MBus or pulse output from standard energy meters (heat, electric or gas). The output can be simple pulse count, a full “raw” MBus readout or a parsed (human readable) MBus output. The data will be available by subscription to a cloud-based data server or “pushed” to the client via a CSV file attached to an email. We may also consider other options such as bespoke or on-site hosted solutions.

Code	Power source	Connection type	Expected duty cycle	Number of meters can be read	Max meter uploads per day
P2-B	Battery	MBus	10 years	1	1
P2-B	Battery	MBus	10 days	1	96 (15 min)
P2-B	Battery	MBus	1 years (TBC)	1	1 upload (of 96)
P2-M	Mains	MBus	N/A	1	1 to 96
P2-MP	Mains	Pulse	N/A	1	1 to 96
P2-MV	Mains	MBus	N/A	5	1 to 96
P2-MV	Mains	MBus	N/A	5	1 upload of 96
P2-BV	Battery	MBus	1 year (TBC)	5	1 to 96

Note: Battery to be replaced at users’ expense. Pricing is available on application.

## Energy Billing

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Whatever stage of your project you're at, please get in touch with us to see how we can help you.



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